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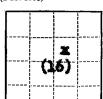
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N. M. Rog. #1545

Utah Reg. No. 2611

Four States Oil Field Surveys Farmington, New Mexico



Copy H. L. C.

Budget Bureau No. 42-R358.4. Form Approved.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

San Arroyo

UNITED STATES **DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY**

NOTICE OF INTENTION TO DRILL		SUBSFOR	JENT REPORT OF WATER	SHIIT-OFF	
NOTICE OF INTENTION TO CHANGE	1	ll l	ENT REPORT OF SHOOT!		1
NOTICE OF INTENTION TO TEST WA	TER SHUT-OFF	- 1	ENT REPORT OF ALTERI		
NOTICE OF INTENTION TO RE-DRILL	L OR REPAIR WELL	H	ENT REPORT OF RE-DRIL		
NOTICE OF INTENTION TO SHOOT C	OR ACIDIZE	SUBSEQU	ENT REPORT OF ABANDO	NMENT	
NOTICE OF INTENTION TO PULL OR	ALTER CASING	SUPPLEM	ENTARY WELL HISTORY		
NOTICE OF INTENTION TO ABANDON	N WELL		·		
(INDIC	TATE ABOVE BY CHECK MARK	NATURE OF RE	PORT, NOTICE, OR OTHER	DATA)	
AN ARROYO UNIT			Octobe	r 4,	, 19 62
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San Arroyo	A TABLES	4	, ,	Utah	
he above location ha he tops of which are					ain form
	it (from top to)	nottom) 9	9-5/6"00 casi n 2" or 5-1/2"00	g at approxim	sately 30
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s surface pipe; we w	ill with rotary 1	tools.		operations may be co	mmenced.
I understand that this plan of wor	ILL with rotary to the state of	writing by the		•	
I understand that this plan of wor	ck must receive approval in the Gas Company Club Building	writing by the	Geological Survey before	•	
I understand that this plan of wor	ck must receive approval in the Gas Company Club Building	writing by the	Geological Survey before		
I understand that this plan of wor	ck must receive approval in the Gas Company Club Building	writing by the	Geological Survey before	E. Brown	
I understand that this plan of work company Sinclair 011 601 Denver	ck must receive approval in the Gas Company Club Building	writing by the	Geological Survey before	E. Brown	
I understand that this plan of work company Sinclair 011 601 Denver	ck must receive approval in the Gas Company Club Building	writing by the	Geological Survey before	E. Brown	

Form approved. Budget Buress No. 62-2551.5.

MO	OFFICE	30.14	Lake	SIA:
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LEASE NUMBER UNIT ATTOTAL

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LESSEE'S MONTHLY REPORT OF OPERATIONS

	State .	re fol	iii.	s is a	Corre	ounty	CRUED .	tions on 3	Field		SAN AI	2030
	weits) j	or th	e mor	ith op		* * * *	(C) 194	19		Jack	Aproyo un	drilling and producing
	Agent'.	s add	ress	6 (I).	During	r Qub I	ed littles		Comp	any	Similair	Oil & Gas Co.
	n.				-	Colores						
	Phone	······	——————————————————————————————————————	MAG T	5-2461				Agent	's title	Divisio	n Chief Clark
	SEC. AND	TWF.	Rayon	Watt No.	Esta Follower	F. 38k15 GF	Mi (ig) meş	Ov. Pt. of (In Trouses	0,50	ALLONS OF PASOLINE ECCURENC	BARRELS OF	REMARKS Of drilling, depth: if shut down, cause; date and much of out for gaseline convent of gas;
M/L loc.			0-03°									At PS cepth 61891
X/A	(Lea			13)								Completed Dual Shud- In Gas Well in Morrison & Daketa formations 10-7-62
46.			25K		,							Spud. 10-9-62. At PB depth 6510' testing.
¥/L, •0.	21 21		U-02; 25k									Spud 10-21-62. Drilling at 3464.
¥/4 ••••	_ * ~		1-036 258									Speed. 10-11-62. At total depth 4932' waiting on completion rig.
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Nors.—There were runs or sales of oil; M cu. fr. of gas sold; runs or sales of gasoline during the month. (Write "uc" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor. Form 9-350 (January 1960)

16-25766-P

Copy H. L. O.



Form Approved.

Land Office Jalt Lake City

Lease No. 11-4113 Unit San AFFOVO

UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

(SUBMIT IN TRIPLICATE)

	NOTICE OF INTENTION TO TEST W		SUBSEQUENT	REPORT OF	SHOOTING OR AC ALTERING CASIN	G	
	NOTICE OF INTENTION TO SHOOT				RE-DRILLING OR ABANDONMENT		
	NOTICE OF INTENTION TO PULL O		SUPPLEMENT				XX
	NOTICE OF INTENTION TO ABANDO	ON WELL			MINO CASI		
	(IND	CATE ABOVE BY CHECK MAR	RK NATURE OF REPORT	r, NOTICE, OR	OTHER DATA)		
	SAN ANROYO UNIT				Octobe	r 16,	, 19 6 2
	Well No. 14 is loc	eated 1960 ft. fro	m_{-} $\begin{cases} N \\ line and \end{cases}$	1980	ft. from [E]	line of sec	16
	NE/4 Sec. 16	165	256		t Lake		
	(1/2 Sec. and Sec. No.)	(Twp.)	(Range)	(Merid		. 1. .	
	(Field)	(County	y or Subdivision)		(State or	Territory)	
	The elevation of the definition of the definition of the depths (State names of and expected depths Strandon at 3:30 & 3:	DETA s to objective sands; show s ing points, and all	AILS OF WOR	K gths of prope	sed casings; indi	cate mudding j	obs, cement
-9-6 2		DETA s to objective sands; show s ing points, and all 10-9-62. Ising at 322 ft.	AILS OF WOR	K gths of propo posed work)	ant. Plu	g down a	
) -9-6 2)-10-62	(State names of and expected depths Spudded at 3:30 A.H., Cemented 9-5/8"OD os 10-10-62. Tested cas Drilled to 3334; wi	DETA to objective sands; show a ing points, and all 10-9-62. using at 322 ft. ling at rate of thout dusting,	AILS OF WOR sizes, weights, and lend to ther important pro	K gths of propo posed work) teks cen minutes	ent. Plu	g down at	4130
0 -9-6 2 0 -10-6 2 0 -14-6 2	Spudded at 3:30 A.H. Cemented 9-5/8"OD os 10-10-62. Tested cas Drilled to 3334', wi out & drill pipe stated fash 2104', bott	DETA to objective sands; show a ing points, and all 10-9-62. using at 322 ft. ling at rate of thout dusting, ack at 2364. con 2364. backe	AILS OF WOR sizes, weights, and length other important properties. with 300 sets 500% for 30 flow out by	K gths of propoposed work) teks cen minutes heads a	ent. Plu . Tested ecount wt	g down at OK. r. Atte	this this property that the second property th
0-9-62 0-10-62 0-14-62 0-15-62	(State names of and expected depths Spudded at 3:30 A.H., Cemented 9-5/8"OD co 10-10-62. Tested cas Drilled to 3334', wi out & drill pipe sta Top fish 2104', bott Attempted to run over up hole, bit plugged	DETA to objective sands; show s ing points, and all 10-9-62. saing at 322 ft. ling at rate of thout dusting, ack at 2364. com 2364, backer ershot, hit brid while condition	AILS OF WOR sizes, weights, and length other important properties. with 300 set 500% for 30 flow out by sed off top college at 1350 inning. Re-re-	K gths of propoposed work) teks cen minutes heads o llers, pulled in bit t	ent. Plu . Tested .ccount wt left 9 co lout of h	g down at OK. T. Atter llars in ole, ran on hole.	apted phole.
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-9-62 -10-62 -14-62 -15-62 -16-62 -17-62	Spudded at 3:30 A.M. Cemented 9-5/8"OD or 10-10-62. Tested cas Drilled to 3334', wi out & drill pipe ste Top fish 2104', bott Attempted to run over up hole, bit plugged Top Fish 2069', Jan Washed over drill ed over. Top fish at 2	DETA to objective sands; show s ing points, and all 10-9-62. Ising at 322 ft. ling at rate of thout dusting, ack at 2364. LOB 2364. backer erahot, hit brid I while conditioned 13 hrs. more ollars. Backed 159. ork must receive approval in	AILS OF WOR sizes, weights, and lend to ther important properties with 300 sets 500% for 30 flow out by set off top edige at 1350; oning. Re-refered up 351, and off the recovery sets at 1350; off the recovery sets at	K gths of propo posed work) teks cen minutes heads a pliars, pulled in bit to prepare ered 3 d	left 9 colored run washo	g down at OK. T. Attending in the control of the c	apted phole. bit.
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Production Department

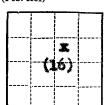


(SUBMIT IN TRIPLICATE)



Land Office Sal t Lake City

San Arroyo



UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

ī					
	NOTICE OF INTENTION TO DRILL_		SUBSEQUENT REP	ORT OF WATER SHUT-OFF	
ļ	NOTICE OF INTENTION TO CHANGE	PLANS	SUBSEQUENT REPO	ORT OF SHOOTING OR ACIDIZING	
	NOTICE OF INTENTION TO TEST WA	TER SHUT-OFF	SUBSEQUENT REPO	ORT OF ALTERING CASING	
	NOTICE OF INTENTION TO RE-DRIL	L OR REPAIR WELL	SUBSEQUENT REPO	ORT OF RE-DRILLING OR REPAIR	
	NOTICE OF INTENTION TO SHOOT	OR ACIDIZE	SUBSEQUENT REPO	ORT OF ABANDONMENT	
	NOTICE OF INTENTION TO PULL OF	ALTER CASING	SUPPLEMENTARY	WELL HISTORY	XX
	NOTICE OF INTENTION TO ABANDO	N WELL	WOTTES OF C	CEMENTING CASING	XX
L	(INDI	CATE ABOVE BY CHECK MARK	(NATURE OF REPORT, NO	TICE, OR OTHER DATA)	
34	LIMI OYGHA M		•	October 25,	, 19 .6 2
V	ME/4 Sec. 16	ated 1980 ft. from	$\begin{bmatrix} N \\ S \end{bmatrix}$ line and $\begin{bmatrix} 1 \\ S \end{bmatrix}$	Solt Lake	c. 16
	(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
	(Field)	Grand	or Subdivision)	Utain	
10-19-62 10-20-62 10-21-62		re. Top fish 2 2 drill collars in & counted 7"	290'. . Conditioned OD easing at 3	hole. Surning 7" ca 1334' w/200 sacks 50-5	
10-24-62	At depth 6550'. Pr				op Morrison
10-25-62		Document 654 on completion r		icks coment. Flug Dow	a 12:01 A.1
	I understand that this plan of wo	rk must receive approval in	writing by the Geologica	al Survey before operations may be com	menced.
C	ompany Sinclair Of		f		
A	ddress Denver 2,	Club Building			
			Bv _	Morris E. Brown	
			_ J	K. E. Brown	
			Title	Division Chief Cler	k
			I ICIC		P4

Production Department

(16)





Budget Bureau No. 42-R358.4. Form Approved.

(SUBMIT IN TRIPLICATE)

Carpia

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Unit ______

SUNDRY NOTICES AND REPORTS ON WELLS

-					
	NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPOR	T OF WATER SHUT-OFF	
	NOTICE OF INTENTION TO CHANGE	PLANS	SUBSEQUENT REPOR	T OF SHOOTING OR ACIDIZING	
ì	NOTICE OF INTENTION TO TEST WA	TER SHUT-OFF	SUBSEQUENT REPOR	T OF ALTERING CASING	
	NOTICE OF INTENTION TO RE-DRILL	OR REPAIR WELL	SUBSEQUENT REPOR	T OF RE-DRILLING OR REPAIR	
	NOTICE OF INTENTION TO SHOOT O	R ACIDIZE	SUBSEQUENT REPOR	T OF ABANDONMENT	
	NOTICE OF INTENTION TO PULL OR	ALTER CASING	- 11 .	LL HISTORY	
	NOTICE OF INTENTION TO ABANDON	WELL	COMPLETION I	EFORT	XX
Ľ	(INDICA	ATE ABOVE BY CHECK MARK	NATURE OF REPORT, NOTIC	E, OR OTHER DATA)	
Q	TIM CYCHAR FAE		••	November 14,	, 19. 62
W	Vell No		-()	ft. from $\{E\}$ line of	sec. 16
	NX/A Sec. 16 (½ Sec. and Sec. No.)		25E (Range) (Meridian)	
	San Arroyo (Field)	Gran	rd r Subdivision)	(State or Territory)	
10-26-62 10-27-62 10-28-62	Picking up tubing. Perforated 6426-42' Set packer at 6410' Acidised with 500 g Kicked Off flowing Tested 250 MCFPD fo gals. acid water, b 10 minutes. Total	with 64 holes. , swabbed dry. als. NE, MP 320 at rate 250 MCF r 6 hrs. Sandf roke at 3300-24 load 478 bbls.	Running tubin Of, Min. 1800f. PD. rac treated per 00f, MTP 4200-3	Wac. 10 minutes. 'fs. 6426-42' with	e swab. Swabbed & 8,000 & 12,0
10-31-62	water 3 hrs., fluid Swabbed 16 hrs. Fl sand.	level 3500.			***
11-1-62	At 6510'-PS. Teste 6228-32', 6215-23',	d 922 MCFPD for 6206-11" with	30 minutes, 42 4 holes per ft.	25#, 26/64" choke. Ran junk basket. See attached	Perforated Prepare clea sheet)
_	04				commenced.
C	ompany Sinciair Oil	& Gas Company	*****		
	بشريب بمان بالاس	lub Building			
Ad	ddress Denver 2, Co	Tolsdo			a.
				Morris E. Brown	٩
			Ву	M. E. Brown	
			·	M. H. Brown	

Title Division Chief Clerk

Production Department

an Arroyo Unit - Well #14 Supplementary Well History & Completion Report.

- 11-2-62 Swabbing load water 1 hr., cleaned out sand to 6510'. Set Model "D" packer at 6388' Ran tubing with packer set at 6186'.
- 11-3-62 Fishing for wire line in tubing.
- 11-4-62 Recovered swab line.
- 11-5-62 Prepare fracture treat. Ran tubing with packer set at 6178'. Swabbed dry in 6 hrs., flowed approximately 100 MCFPD. Acidized perforations 6206-11', 6215-23' & 6228-32' with 750 gals. MP 3400#. Swabbed 4 hrs. Flowing at rate 1020 MCFPD through 2" tubing.
- 11-6-62 Fracture treated perfs. 6206-11', 6215-23' & 6223-32' with \$,000# sand, 12,000 gals. gelled acid water. MP 3800#, Average treating pressure 2600#. Kicked off with gas flowing load water & gas, CP 200#.
- 11-7-62 Flowing gas at 1100 MCFPD for Dakota.
- 11-8-62 Flowed gas at 1450 MCFPD, 1" choke, tubing pressure 100#, from Dakota. Killed well cleaned out sand on top of packer.
- 11-9-62 Cleaned out sand with gas. Knocked off plug in packer. Killed well. Removing blow out preventer.
- 11-10-62 Flowing water & gas to pits to clean up.
- 11-11-62 Flowing water & gas to pits to clean up. Est. 500 MCFPD, tP 175#.
- 11-12-62 Flowing gas & water. Est 734 MCFPD, CP 650#, 2" ope n tubing.
- 11-13-62 Flowing 1136 MCFPD through 1" pipe, TP 105#, GP 275#.
- 11-14-62 Ran 201 jts. 2-3/8" tubing set in Model "D" packer at 6388. Set Otis side door choke at 6354, 24 hr. COMPLETION TEST on Morrison perforations 6426-42, flowed at rate of 834 MCFPD, open 1" line, 25# FTP, 1 hr. SITP 800#. 24 hr. COMPLETION TEST on Dakota perforations 6206-11, 6215-23. & 6228-32, flowing at rate of 662 MCFPD, open 1" line, 15# FCP, 2 hr. SICP 550#. COMPLETED DUAL GAS WELL.

SINCLAIR OIL & GAS COMPAY WELL LOG

AUTHORIZATION NO. 50, 1962

CHOW ALL MEASUREMENTS FROM SURFACE LEVEL. ELEVATION: SURFACE 7444 RIG FLOOR RIG FLOOR DATE 8-10-62 DRILLING CONTRACTOR ATERATOR DATE 8-10-62 DRILLING CONTRACTOR ATERATOR DATE 8-10-62 DRILLING CONTRACTOR ATERATOR DATE 8-10-62 DRILLING COMMENCED 10-62 DATE COMPLETED 10-25-62 DATE COMPLETED STSTING 11-14-62 DATE COMPLETION OF TOOLUGING STATE ATERATOR OF PRODUCTION STATE ATERATOR DATE ATTERATOR DATE ATERATOR DATE ATTERATOR DATE ATERATOR DATE ATERATOR DATE ATERATOR DATE ATERATOR DATE ATTERATOR DATE AT COMPLETION OIL WATER CHOKE ALLOWABLE PRODUCTION. PER DAY PER CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR ALLOWABLE PRODUCTION FOR DAY PER CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR ALLOWABLE PRODUCTION FOR DAY PER CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR ALLOWABLE PRODUCTION OF MID USED DURING COMPLETION CHOKE API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR ADE DURING COMPLETION CHOKE API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API GRAVITY OF CRUDE OIL © 60° F. GOR API CALENDAR DAY API CALEN	LOCATION OF WELL 1980 from the North line & 1980	m the 8-10-62	
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ELECTRICAL LOG MADE 10 25-62 TOP 500 BOTTOM 508 SERVICE CO. HCCUllough STREAM	LOCATION STAKED BY E. V. Echohant DATE	8-10-62	
ELECTRICAL LOG MADE 10 25-62 TOP 500 BOTTOM 508 SERVICE CO. HCCUllough STREAM	LOCATION STAKED BY Echohant DATE	8-10-62	
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MONTHLY OIL AND GAS PRODUCTION REPORT

012930

Operator name and addre	J.J.				
●ARCO OIL & GAS COMP	ANY			Utah Account No.	N0080
P 0 B0X 1610				1	
MIDLAND TX	79702			Report Period (Mo	onth/Year) <u>12 / 86</u>
ATTN: REVENUE ACCT/	JEFF DECKE	ER	•	Amended Report	
			D. J. Aire Maluma		
I (Name of the second of the second of	Producing	Days	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
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1915886 00505 16S 25E 23	ENRD	*			
ARROYO 5				1	
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ARROYO 6					
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ARROYO 1		N.			
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ARROYO 14	a Wasu	1			
1915895 00510 16S 25E 16	MRSN	<u>*</u>	<u> </u>		
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MONTHLY OIL AND GAS PRODUCTION REPORT

012918

*** ARCO CIL & GAS COMPANY *** P O BOX 1610 *** MIDLAND *** T 79702 *** ATTN: REVENUE ACCT/JEFF DECKER *** MIDLAND *** T 79702 *** ATTN: REVENUE ACCT/JEFF DECKER *** Amended Report** *** Well Name *** Any Middle Entity	Operator name and address	:			1	
## ARCU O 12 ## ARCU O 12 ## ARCU O 12 ## ARCU O 14 ## ARCU O 15 ## ARCU O 16 ## ARCU O 16 ## ARCU O 16 ## ARCU O 16 ## ARCU O 17 ## ARCU O 18 ## ARCU O 19 #	·		Se	٠		
Mail Name		NY		् । पुरुष ६, १३४१ - 🗐	Utah Account No.	N0080
Well Name		79702			Report Period (M	onth/Year) 12 / 86
Well Name API Number Entity Location Zone API Number Entity Location Zone API Number Son ARROYO 8 301915830 00500 16S 25E 16 DKTA * SAN ARROYO 9 301915831 00500 16S 25E 16 DKTA * 301915831 00500 16S 25E 16 DKTA * 301915831 00500 16S 25E 27 DKTA * 301915831 00500 16S 25E 27 DKTA * 301915832 00500 16S 25E 27 DKTA * 301915832 00500 16S 25E 23 DKTA * 301915834 00500 16S 25E 22 DKTA * 301915839 00500 16S 25E 24 DKTA * 301915839 00500 16S 25E 24 DKTA * 301915839 00500 16S 25E 24 DKTA * 301915839 00500 16S 25E 26 DKTA * 301915839 00500 16S 25E 24 DKTA * 301915839 00500 16S 25E 26 DKTA * 301915839 00500 16S 25E 26 DKTA * 301915839 00500 16S 25E 24 DKTA * 301915839 00500 16S 25E 25 DKTA * 301915839 00500 16S 25E 25 DKTA * 301915839 00500 16S 25E 25 DKTA * 301915839 00500 16S 25			R		1	
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API Number Entity Location Zone Oper Oil BBL Gas (MSCF) Water BBL AN ARROYO 0 OSOO 165 26E 30 DKTA SAN ARROYO 9						
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SAN ARROYO 20 4301915900 00500 16S 25E 26 DKTA TOTAL Comments (attach separate sheet if necessary) # PROPERTIES SOLA ERECTIVE 9-1-86, To: THE BERCH CORPORATION, 410 17th STREET, Newvex, CD 80202 N9975 I have reviewed this report and certify the information to be accurate and complete. Date 1-21-87	SAN ARROYO 19	DKTA	1 32			
TOTAL Comments (attach separate sheet if necessary) # PROPERTIES SOLA EFFECTIVE 9-1-86, To: THE BERCH CORPORATION, 410 17th STREET, Newver, CO 80202 I have reviewed this report and certify the information to be accurate and complete. Date 1-21-87	4301915099 00500 103 250 14	BICTA _	+^			
TOTAL Comments (attach separate sheet if necessary) # PROPERTIES SOLA EFFECTIVE 9-1-86, To: THE BERCH CORPORATION, 410 17th STREET, DENVER, CO 80202 N9985 I have reviewed this report and certify the information to be accurate and complete. Date 1-21-87	DAN MARUTU 20 "Lanialegno nocon 165 256 26	DKTA	*		1	
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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUL GAS AND MINING

DEPARTMENT OF NATURAL F	RESOURCES	
DIVISION OF OIL, GAS, AND	MINING	5. LEASE DESIGNATION AND SERIAL NO.
·		ML-4113. PGW
SUNDRY NOTICES AND REPOR (Do not use this form for proposals to drill or to deepen or Use "APPLICATION FOR PERMIT—" for	IS ON THE PROPERTY IN THE PROPERTY OF THE PROP	INDIT OF TOP OF THE NAME
OIL GAS OTHER	JAN 05 1988	San Arroyo
2. NAME OF OPERATOR		S. FARM OR LEASE NAME
Birch Corporation	AO MOISINIO	San Arroyo
3. ADDRESS OF OPERATOR	OIL, GAS & MINING	9. WELL NO.
3801 Fast Florida Avenue Suite 900 Der	nver, CO 80210	Unit No. 14
 LOCATION OF WELL (Report location clearly and in accordance wit See also space 17 below.) 	h any State requirements.*	10. FIELD AND POOL, OR WILDCAT
At surface		San Arroyo
1000 FN 1000 FFI		11. EEC., T., E., M., OR BLE. AND SURVEY OR AREA
1980 FNL 1980 FEL		Sec. 16 T16S R25E
4. AP NUMBER 15. BLEVATIONS (Show when	ther DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
43.019.15895 7644		Grand Utah
	ate Nature of Natice, Report, or C	
NOTICE OF INTENTION TO:	UPERUR	ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT X MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE X ABANDON®	SHOOTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL CHANGE PLANS	(Other)	
(Other)	(NOTE: Report results ('ompletion or Recomple	of multiple completion on Well tion Report and Log form.)
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pe proposed work. If well is directionally drilled, give subsurface neat to this work.) 	rtinent details, and give pertinent dates, s locations and measured and true vertica	including estimated date of starting any depths for all markers and zones perti-

We propose to perforate, acidize and fracture according to the attached procedure. Fracture design will be for a propped fracture length of approximately 800 feet.

18. I hereby certify the the foregeth is that and considered with the signed si		ions Manager-	DATE 1/4/88
(This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	OIL. GA	D BY THE STATE H DIVISION OF S, AND MINING
	*See Instructions on	DATE: 2/-S	Seg-

WORKOVER PROCEDURE

San Arroyo Unit No. 14

San Arroyo Field, Grand County, Utah

LOCATION: 1980 FNL, 1980 FEL, Sec. 16, T16S, R25E Grand County, Utah.

ELEVATION: 7644 GR.

TUBULARS: 7" 20# J-55 casing set at 3334'. $4\frac{1}{2}$ " 10.5# J-55 casing set at

6549'. 2-3/8" tubing set at 6388'.

OTHER CONDITIONS: Otis sidedoor choke at 6354'. Model "D" Packer at 6388'.

PROCEDURE:

1. Move in workover rig and rig up. Install BOP's. Measure TD with odometer. Remove Model "D" Packer at 6388' with packer plucker or sandline drill.

2. Go in hole with 3-1/8" casing gun and perforate the Cedar Mountain Formation as follows with premium charges:

6177-6187'

1SPF

11 Holes

6134-6137'

1SPF

4 Holes

Run gauge ring.

3. Pick up retrievable bridge plug and retrievable packer. Set bridge at 6450'. Set packer at 6320'.

- 4. Foam frac existing Morrison perfs at 6426-6442' down tubing. Fracture treatment will be designed later. Flowback.
- 5. Acidize Cedar Mountain formation perfs at 6177-6187' and 6134-6137' individually with 500 and 250 gallons of 15% HCL respectively. The acid should contain inhibitor, iron sequestering agent, clay stabilizers and non-ionic surfactant with ball sealers. Flowback and evaluate for frac individually.
- 6. Set bridge plug at 6240'. Set packer at 6110'. Spot sand to 6196' to cover older perfs.
- 7. Fracture zone down tubing. Flowback.
- 8. Pull out of hole with bridge plug and packer. Go in hole with 3-1/8" casing gun and perforate as follows with premium charges:

Lower Dakota

6047-6071'

1SP1½ ft.

17 Holes

Upper Dakota

5980-6006'

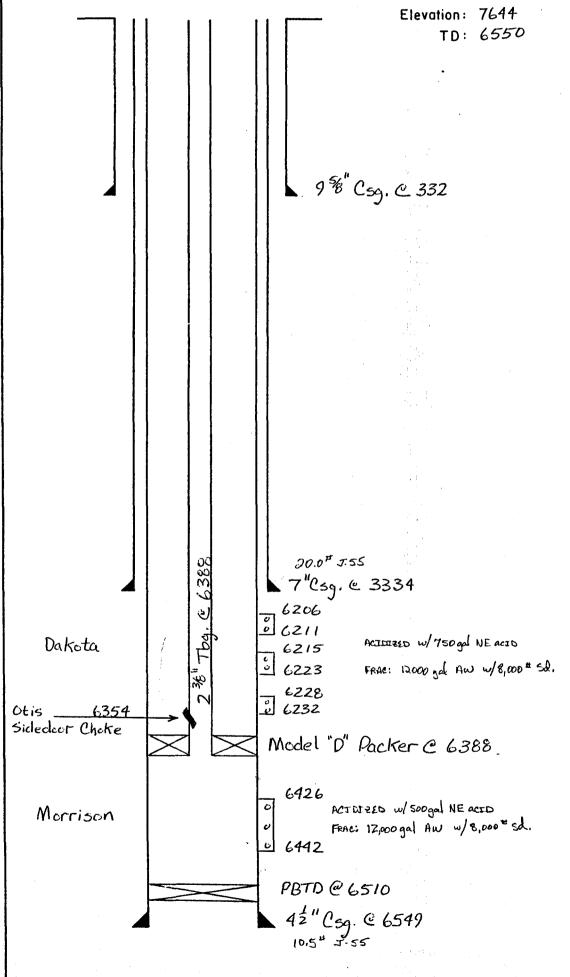
1SP1号 ft.

18 Holes

Run gauge ring.

- 9. Pick up packer and bridge plug. Go in hole, test and acidize Dakota formations individually using 1,250 gallons of 15% HCL on the lower perfs and 1,500 gallons of 15% HCL on the upper perfs. Use the same additives as specified earlier. Evaluate individually for frac.
- 10. Set bridge plug at 6080'. Set packer at 5900' Foam frac zones down tubing. Flowback.
- 11. Pull out of hole with bridge plug and packer. Go in hole open ended to 6350'. Flow well to sales line.

San Arroyo Unit Well # 14 EXISTING CONDITIONS



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUL GAS AND MINING

DIVISION OF OIL, GAS, AND MINING	5. LEARE DESIGNATION AND SERIAL NO. ML-4113 PGW
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTES OR TRISS NAME 031002
OIL GAS OTHER	7. UNIT AGREEMENT NAME San Arroyo
2. NAME OF OPERATOR	S. PARM OR LEASE NAME
Birch Corporation	San Arroyo
3801 East Florida Suite 900 Denver CO 80210	Unit No. 14
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)	10. FIELD AND POOL, OR WILDCAT
At surface	San Arroyo
1980' FNL 1980' FEL	Sec. 16 T16S, R25E
DETA	12. COUNTY OR PARISH 18. STATE
14. API NUMBER 18. SERVATIONS (Show whether DF, RT, GR, etc.) 18. OP-15895-MESN 7644' GL.	Grand Utah
Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
NOTICE OF INTENTION TO:	UENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
PRACTURE TREAT MULTIPLE COMPLETS FRACTURE TREATMENT SMOOT OR ACIDIZE ABANDON® SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL CHANGE PLANS X (Other)	
(NOTE: Report results	of multiple completion on Well letion Report and Log form.)
A workover of this well has been recently approved and a twin w Unit Well #38, has been drilled. The new well was not producti Entrada, and it will be completed across the Morrison, Cedar Mo Dakota intervals. It is proposed to plug and abandon this well setting a cast iron bridge plug at 6380', setting a 25 sack cem 6100', setting a cast iron bridge plug at 6090', and plugging to 0-50' of cement.	ve in the lower ountain and by removing tubing, ment plug from 6380'-
18. I hereby certify that the foregoing is true and correct STORIED SOUTH TITLE Operations Manager	DATE >54/81
, ,	DAAR - STATE -
(This space for Federal or State office use)	ROVER BY THE STATE
CONDITIONS OF APPROVAL, IF ANY: OF	UTAH DIVISION OF ., GAS, AND MINING 3-1-88

*See Instructions on Reverse Side BY:

STATE OF UTAH

DEPARTMENT OF NATU		
DIVISION OF OIL, GAS	S, AND MINING	5. LEASE DESIGNATION AND SERIAL NO. ML-4113 PGA
		6. IF INDIAN, ALLOTTER OR TRIBE NAME
SUNDRY NOTICES AND RE (Do not use this form for proposals to drill or to dec Use "APPLICATION FOR PERMIT		030918
		7. UNIT AGREEMBET NAME
OIL GAS OTHER		San Arroyo
NAME OF OPERATOR		S. FARM OR LEASE NAME
irch Corporation	·	San Arroyo
ADDRESS OF OPERATOR		9. WELL NO.
801 Fast Florida Suite 900 Denver	CO 80210	Unit No. 14
LOCATION OF WELL (Report location clearly and in accords See also space 17 below.)	nce with any State requirements.	10. FIELD AND POOL, OR WILDCAT
At surface		San Arroyo
980' FNL 1980' FEL		Sec. 16 T16S, R25E
API NUMBER 15. BLEVATIONS (SE	now whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATS
13-019-15895 OFT 1644 GL	. •	Grand Utah
Check Appropriate Box To	Indicate Nature of Notice, Report	, or Other Data
NOTICE OF INTENTION TO:		URANQUENT REPORT OF:
		REPAIRING WELL
TEST WATER SHUT-OFF PULL OR ALTER CASIN PRACTURE TREAT MULTIPLE COMPLETE	WATER SHUT-OFF FRACTURE TREATMENT	
FRACTURE TREAT MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDONS	SHOOTING OR ACIDIZIN	•
REPAIR WELL CHANGE PLANS	X (Other)	
(Other)	(Norz: Report	results of multiple completion on Well Recompletion Report and Log form.)
A workover of this well has been re Unit Well #38, has been drilled. Entrada, and it will be completed a Dakota intervals. It is proposed setting a cast iron bridge plug at 5100', setting a cast iron bridge plug at 0-50' of cement.	The new well was not prod across the Morrison, Ceda to plug and abandon this 6380', setting a 25 sack	wetive in the lower or Mountain and well by removing tubing, c cement plug from 6380'-
)-90 Of Cement.	•	
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i. I hereby certify that the foregoing is true and correct		2/6-
SIGNED & Jany Three	TITLE Operations Manager	DATE 4/24/85
(This space for Federal or State office use)		
		PPROVED THE STATE
APPROVED BY	TITLE	OF LITAH DIVISION OF

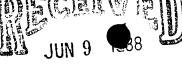
OF UTAH DIVISION OF OIL, GAS, AND MINING E: 3-2-87 *See Instructions on Reverse Side BY: Original Signed by John R. Baza

Form approved. Budget Bureau No. 1004-0135 Form 3160-3 ID STATES SUBMIT IN TRIP Expires August 31, 1985 DEPARTMENT OF THE INTERIOR (Other fostruction) November 1980) 5. LEASE DESIGNATION AND SERIAL NO. Formerly 9-331) ML - 4113BUREAU OF LAND MANAGEMENT 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plus tack to a different r Use "APPLICATION FOR PERMIT—" for indeproposals.) 7. UNIT AGREEMENT NAME WELL X WELL San Arroyo OTHER DIVISION OF 8. FARM OR LEASE NAME NAME OF OPERATOR San Arroyo OIL GAS & MINING Birch Corporation 9. WELL NO. 3. ADDRESS OF OPERATOR LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface Unit No. 14 Denver CO 80210 10. FIELD AND POOL, OR WILDCAT San Arroyo 11. SEC., T., R., M., OR BLK. AND Sec. 16 116S, R25E 1980' FNL, 1980' FEL 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 12. COUNTY OR PARISH 13. STATE 14 PERMIT NO. Utah 7644' GL. Grand 43-019-15895 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL MULTIPLE COMPLETE FRACTURE TREAT FRACTURE TREATMENT ALTERING CASING ABANDON* SHOOT OR ACIDIZE SHOOTING OR ACIDIZING ABANDONMENT* REPAIR WELL CHANGE PLANS (Other) (Nors: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A workover of this well has been recently approved and a twin well, the San Arroyo Unit Well #38, has been drilled. The new well was not productive in the lower Entrada, and it will be completed across the Morrison, Cedar Mountain and Dakota intervals. It is proposed to plug and abandon this well by removing tubing, setting a cast iron bridge plug at 6380', setting a 25 sack cement plug from 6380'-6100', setting a cast iron bridge plug at 6090', and plugging the surface with 0-50' of cement.

SECTION	ph 1)		TITLE Operations Manager	DATE 6/3/88
A Charles	Teder or	State office use)	TITLE	DATE



STATE OF UTAH METAL RESOURCESCE SAR WINNING

	MENT OF NATURAL RESOL ON OF OIL, GAS, AND MIN		S. LEASE DESIGNATION ML-4113	
	TICES AND REPORTS C		d. IF INDIAN, ALLOTTER	OR TRISE NAME
OR			7. UNIT AGREEMENT HA	48
WELL WELL M OTHER			San Arroyo	(3
Birch Corporation	•		San Arroyo	
& ADDRESS OF OFERATOR			9. WELL EG.	
3801 East Florida Aven	ue Suite 900 Denver	CO 80210	Unit #14	·
4. LOCATION OF WELL (Report location of See also space 17 below.)	Hearly and in accordance with any	itate requirementa."	San Arroyo	E MILDCAT
At surface			11. and T. B. M. OR	ILE. AZD
			ACEA SO TEVEDS	
			Sec. 16 T165	S R25E
14. APT NUMBER	15. BLEVATIONS (Show whether DF.	27, G2, etc.)	12. COUNTY OR PARIS	
43-019-15895			Grand	Utah
	ppropriate Box To Indicate N	ature of Notice Report or	Other Data	
	• • •		OHIC DEIG	
NOTICE OF INTE	ATION TO:			
TEST WATER SECT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING O	<u> </u>
PRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING	MANDONABA	1 1
REPAIR WELL	CHANGE PLANS	(Other)		
(Other)		(Notz: Report resu	its of multiple completion upletion Report and Log fe	on Well
This well was temporal commenced 2-13-88 and	•		ed report. Work	
ANDROWED BY	office (20)	perations Manager	DATE	3 88
CONDITIONS OF APPROVAL, IS	ANT:			

Page 1

San Arroyo Unit #14 Sec. 16 T16S-R25E Grand County, Utah

DIVISION OF OIL, GAS & MINING

2-13-88 - Rigging up. Casing size: 4 1/2" 10.5#. Move rig in - no anchors. Spot rig, move in pump, tank, & BOP equipment. Shut down.

DC: \$1655 CC: \$1655

2-14-88 - Present operations: Attempting to pull tubing free. Stretch indicates tubing stuck about 2000'. Set anchors, rig up. Install BOPE, pull out of hole with 6386.01 ft. 2 3/8" tubing and seal assembly. Found one joint of tubing across perforations was full of holes. Recovered side door choke. Rig up Dyna-Jet and set CIBP @ 6380'. Trip in hole with 6373' of tubing, rig up Dowell, and pump 25 sx class "G" cement. Balance plug w/ 24 bbls of water. Pulled 20 jts of tubing. Reversed out tubing with 38 bbls of water. No cement. SDFN.

DC: \$4046 CC: \$5701

2-15-88 - Present operations: Running free point. Pick up on tubing. Tubing was stuck. worked tbg for 1 hr. Pulled 35,000# above string weight. No success. Stretch indicates tbg stuck at 2100'. Fill tbg w/ 8.7 bbls of water. Pressure to 1500 psi. Had a slow bleed off. Fill csg w/ 8.75 bbls of water. Pressure to 1500#. Pressured tbg to 2000#. Bled off to 0 in 5 min w/ small drip from csg. Pressured tbg to 2000# again. Bled to 0 in 3 min. Pump 4 bbls down tbg at 3/4 bbls/min at 2200#. RU Dyna-Jet, run sinker bar to 6372. No cement in tbg or bottom of csg. Run free pt. Tbg free at 3100' indicated stuck at 3125. Run chemical cutter, cut pipe at 3066'. Could not pull pipe free. RU new free pt tool & SDON.

DC: \$2492 CC: \$8193

2-16-88 - Run free point. Tubing stuck @ 2725'. Free at 2700'. Run chemical cutter and cut tubing @ 2664' from G.L. POOH w/ 84 jts and cut off stub. Total of 2672.16 tbg. Run 3.70" gauge ring to 2640'. Set CIBP @ 2631'. ND BOP equip. Install wellhead. RD rig and move to SAU #38. Bottom 30' of tbg had cement on outside.

DC: \$5469 CC: \$13,662 DIVISION OF OIL, GAS & MINING

Page 2

San Arroyo Unit #14

2-17-88 - No report.

2-18-88 - No report.

6-01-88 - Remove wing valves and pump 5 sx portland cement.

6-02-88 - Remove braden head and install dry hole marker.

Birch corp API 43-019-158.95

2-12-88 SRB

San Arroyo Unit # 14 Sec. 16, T.165, R25E John Gordon (303) 245-1958

Plugging Instructions

95/8" (15g. @ 332'
7" (15g. @ 3334'
41/2" (15g. @ 6549'

Plugs:

- 1 Pump small amount of cement down they into Morroson interval.
- (2) Sting out of pkr. or Cut tbg.
- 3) Set cement retainer over Dakota perfs (no deeper than 6200').
- De Squeeze Coment into retainer, sting out & let coment fall on top of retainer.
- Set 50' surface plug. All cgg.

 annulus open to surface must be plugged.

15et CBPE le 380/ 25et CBPEC le 50 San Arroyo Unit # 14 Sec. 16, T.165, R25E John Gordon (303) 245-1958

Plugging Instructions

 $9^{5/3}$ " Csg. @ 332' 7" Csg. @ 3334' $4^{7/2}$ " Csg. @ 6549'

Plugs:

- 1 Pump small amount of coment down they into Morroson interval.
- 3) Sting out of pkr. or cut tba.
- 3) Set cement retainer over Dakota perfs (no deeper than 6200').
- De Squeeze Coment into retainer, sting out & let cement fall on top of retainer
- 5) Set 50' surface plug. All egg.
 annulus open to surface must be
 plugged.

Birch corp.

2-12-33 SRE

San Arroy o Unit # 14, Sec. 16, 7165, RZSE P: A Calculations

> 95/8" @ 332' 7" @ 3334' w/275 5X 41/2" @ 6549' w/300 SX

Perfs. @ 6206-6211 6215-6223 }- Daksta & Model 6223-6232

6426 - 6442 - Morrison

Assume 61/4" hale behind 41/2" pipe:

- 0.1026 ft3/ft between csq. : hole.

Assume 1:1 ratio of ft3/sk yield.

 $\frac{300 \text{ ft}^3}{0.1026 \text{ ft}^3/2t} = 2924' \text{ of cement column}.$

41/2" Cement top @ (6=49-2924) = 3625'

Assume 83/4" hole behind 7" pipe:

-> 0.1563 ft/ft between csg. + hole

275 ft3

0.1503 ft/ft = 1830' of cament column

7" Cement top. @ (3334'-1830') = 1504'

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